ISR INTERNATIONAL SEARCH REPORT

international application No PCT/EP2007/060225

-			.,,	
A. CLASS	CO7D498/04 A61P5/24 A61P1	5/18 A61K31/553		
According	to international Patent Classification (IPC) or to both national class	sification and IPC		
B. FIELD	S SEARCHED			
CO7D	Minimum documentation searched (classification system followed by classification symbols) CO7D			
Document	ation searched other than minimum documentation to the extent (nal such documents are included in the fields s	earched	
Electronic	data base consulted during the international search (name of dat	a base and, where practical, search terms used	9	
EPO-Ir	nternal, WPI Data, BEILSTEIN Data,	CHEM ABS Data		
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the	a retevant passages	Relevant to claim No.	
Á	WO 03/084963 A (AKZO NOBEL NV [HERMKENS PEDRO HAROLD HAN [NL]; [NL]; D) 16 October 2003 (2003- cited in the application examples 58,63	LÜCAS HANS	1-29	
A	CAULFIELD W L ET AL: "Synthesi 1-amino-1,2,3,14b-tetrahydro-4h-d]dibenzo[b,f][1,4]oxazepine compounds" JOURNAL OF THE CHEMICAL SOCIETY TRANSACTIONS 1, CHEMICAL SOCIETY LETCHWORTH, GB, no. 6, 1996, pa 545-553, XP002212060 ISSN: 0300-922X example 12	H-pyrido[1,2 and related , PERKIN Y.	1-29	
Furt	her documents are tisted in the continuation of Box C.	X See patent family annex.		
A document defining the general state of the art which is not considered to be of particular relevance. *E* earlier document but published on or after the international filing date invention the document which may throw doubts on priority claim(e) or which is cited to establish the publication date of another citation or other special reason (as specified) *C* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an invention cannot be considered to involve an invention of coursems to combined with one or more other such documents in the art. **P** document published prior to the international filing date but later than the priority date claimed.			he application but ory underlying the aimed invention be considered to unment is taken alone aimed invention entive step when the e other such doou- s to a person skilled	
Date of the	Date of the actual completion of the international search Date of making of the international search report			
¥.	17 December 2007 28/12/2007			
Name and n	hailing address of the ISA/ European Patent Office, P.B. 5818 Patentilaan 2 NL - 2280 NV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorzed officer Gettins, Marc	The state of the s	

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INTERNATIONAL SEARCH REPORT

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 25-26 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. (II Observations where unity of invention is tacking (Continuation of Item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
The additional search lees were accompanied by the applicant's protest but the applicable protest tee was not paid within the time limit specified in the invitation.
No protest accompanied the payment of additional search lees.

EP07820620

Information on patent family members

International application No PCT/EP2007/060225

Patent document cited in search report	***************************************	Publication date		Patent lamily member(s)		Publication date
WO 03084963	Α	16-10-2003	AU	2003224161	A1	20-10-2003
			BR	0308890	A	11-01-2005
			CA	2480940	A1	16-10-2003
			CN	1649879	A	03-08-2005
			HR	20040913	A2	31-08-2005
			IS	7452	A	16-09-2004
			JP	2005528382	T	22-09-2005
			ΜX	PA04009709	A	13-12-2004
			NZ	535546	Α	26-01-2007
			US	2005171087	A1	04-08-2005
			ŽĀ	200407667		26-07-2006

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2007/060225 26.09.2007 27.09.2006 International Patent Classification (IPC) or both national classification and IPC INV. C07D498/04 A61P5/24 A61P15/18 A61K31/553 Applicant N.V. ORGANON This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. iV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA:

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Date of completion of

this opinion

see form PCT//SA/210 Authorized Offices

Gettins, Marc

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2007/060225

	Вс	x N	o. I Basis of the opinion
1	W	ith r	egard to the language, this opinion has been established on the basis of:
	Ø	th	e international application in the language in which it was filed
		a pu	translation of the international application into , which is the language of a translation furnished for the irposes of international search (Rules 12.3(a) and 23.1 (b)).
2.		TI by	nis opinion has been established taking into account the rectification of an obvious mistake authorized or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
	a.	type	of material:
			a sequence listing
			table(s) related to the sequence listing
	b. I	form	nat of material:
			on paper
			in electronic form
	c. t	ime	of filing/furnishing:
			contained in the international application as filed.
			filed together with the international application in electronic form.
			furnished subsequently to this Authority for the purposes of search.
4.		ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
5.	Ado	ditio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2007/060225

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	The	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non vious), or to be industrially applicable have not been examined in respect of	
		the entire international application	
	\boxtimes	claims Nos. <u>24-26,29</u>	
	bed	cause:	
	Ø	the said international application, or the said claims Nos. <u>24-26</u> relate to the following subject matter which does not require an international search (<i>specify</i>):	
		see separate sheet	
	Ø	the description, claims or drawings (indicate particular elements below) or said claims Nos. 29 are so unclear that no meaningful opinion could be formed (specify):	
		see separate sheet	
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify):	
		no international search report has been established for the whole application or for said claims Nos.	
		a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:	
		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.	
		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.	
		pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 ter. 1(a) or (b).	
		a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.	
		the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.	
DOM:		See Supplemental Box for further details	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-28

No: Claims

Inventive step (IS)

Yes: Claims

Claims

No:

1-28

Industrial applicability (IA)

Yes: Claims

1-28

No: Claims

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2007/060225

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. Claims 25-26 relate to a subject-matter considered by this Authority to be covered by the provision of Rule 39.1 (iv /67.1 (iv PCT. The patentability can be dependent upon the formulation of the claims. The EPO, for example, does not recognise as patentable claims to the use of a compound in medical treatment, but may allow claims to a product, in particular substances or compositions for in a first or further medical treatment.
- 2. Claim 24 (a method of contraception) may fail to meet the requirements of patentability in the national procedure.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Relevant prior art is provided by:
 - D1: WO 03/084963
 - D2: CAULFIELD W L ET AL: "Synthesis of 1-amino-1,2,3,14b-tetrahydro-4H-pyrido[1,2-d]dibenzo[b,f][1,4]oxazepine and related compounds" JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1, CHEMICAL SOCIETY. LETCHWORTH, GB, no. 6, 1996, pages 545-553, XP002212060 ISSN: 0300-922X
- 2. The current application is a novel selection from within D1 on account of the position of the F and CN substituents. The current application is novel vis-à-vis D2 i.a. on account of the CN substituent.
- 3. The problem addressed by the current application is the provision of further progesterone receptor modulators which are quantitatively more effective than those known from the closest prior art D1. In the light of the comparative test data and in particular the results on page 25 of the current application it can be considered that the said problem has been solved. Accordingly an inventive step can be acknowledged.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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4. Claims 25-26 relate to a subject-matter considered by this Authority to be covered by the provision of Rule 39.1 (iv) /67.1 (iv) PCT.

Re Item VII

Certain defects in the international application

 Claim 29 claims the conversion of II to I without providing any indication whatsoever as to how this is to be achieved. This is a result to be achieved where no technical content is given so that the claim fails to meet the requirements of Art. 6 PCT.

Re Item VIII

Certain observations on the international application

The reference on page 9 to "not intended to limit" should be deleted.

PATENT COOPERTION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2006,958 WO	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/EP2007/060225	International filing date (day/month/year) 26 September 2007 (26.09.2007)	Priority date (day/month/year) 27 September 2006 (27.09.2006)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant N.V. ORGANON					

ì.	This international preliminary International Searching Author	report on patentability (Chapter I) is issued by the International Bureau on behalf of the rity under Rule 44 $bis.1(a)$.	
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.		
		prence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.	
3.	This report contains indication	s relating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Bex No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.		communicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but 1 makes an express request under Article 23(2), before the expiration of 30 months from the priority	
		Date of issuance of this report	

31 March 2009 (31.03.2009)

e-mail: pt05.pct@wipo.int

Yolaine Cussac

Authorized officer

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